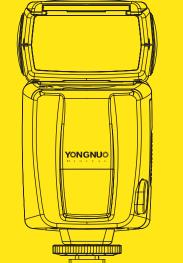
DIGITAL



Please read and understand shis entire manual before using this product. Keep it for future reference.

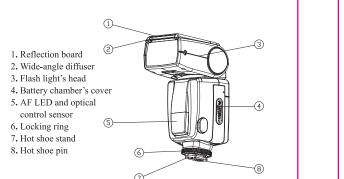
To avoid short circuit, be sure the batteries contacts are securely packed and in accordance with local provision when handling the

when it occurs.

To avoid possible safety accident, do not use the flush light on the people who need a high degree of attention.

• If the battery leaks corrosive liquids, please take out the battery

Do not disassemble or maintain this product. Touching the



AF LED and optical control sensor Locking ring 7. Hot shoe stand Hot shoe pin

Please place the batteries and the parts which can be swallowed

To avoid possible injury to eyes, do not use the flush light in a short distance from the eyes.

Please take out the batteries and stop using immediately in case of

• This product is dropped or shocked seriously and the inner part of the product is bared.

with gloves.

internal high voltage circuit will cause electric shock.

II. Nomenclature

Reflection board

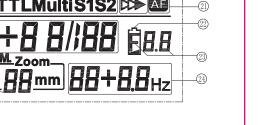
2. Wide-angle diffuser

3. Flash light's head

To avoid fire or electrical shock, do not expose this product to rain

mistakenly away from children. Contact a doctor immediately

The product gives off strange smell, smokes or heats.



16. Mode indicator 17. Output/EV indicator

LCD panel description

9. LCD panel

10. +/- buttons

13. PC port

Test button

11. Power switch

12. Mode switch button

14. Charging indicator

18. Flash head manual zoom indicator

19. Flash head zooming indicator 20. Read-curtain indicator

21. AF LED switch indicator

22. Power low indicator

23. Aperture indicator 24. Output level fine / Flash times or frequency indicator for Multi mode





2. Mount the speedlite on your camera

Loosen the locking ring by turning it in the direction of the arrow. Slip the speedlite hot shoe stand into the camera hot shoe stand until it stops. Turn the locking ring in the direction of the arrow tighten. To detach the speedlite, loosen the locking ring by turning it in the opposite direction.





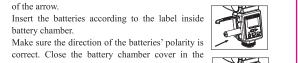




Operation of the buttons:						
Component	Operation					
[Power Button]	Power switch of the flash light. The power of the flash light can be opened or closed by pressing this button for 2 seconds. It is suggested that the battery shall be taken out after the power of the flash light is turned off through this button.					
[Mode Switch Button]	The mode of the flash light will be switched among the TTL/M/Multi/S1/S2 in circle for each press.					
[Test Button]	Press the test and the flash will output the brightness.					
[+]and[-]button	Under the TTL mode, the exposure compensation can be adjusted through this					

III. Installation Instruction

Slide the batteries chamber's cover in the direction of the arrow. Insert the batteries according to the label inside





IV. Basic Functions 1. Basic Operations

perations				mulcatorj			
of the buttons:				The red light	The flash light is fully	Normal	
nt	Operation			is lit.	charged, and can be used.	Normai	
ton]	Power switch of the flash light. The power of the flash light can be opened or closed by pressing this button for 2 seconds. It is			The green light is lit.	The flash light has not been fully charged.	If the green light is lit for a long time, replace the batteries.	
	suggested that the battery shall be taken out after the power of the flash light is turned off through this button.			The green light blinks.	The flash light is locked due to low battery. The flash light is locked to	Replace the batteries.	
itch	The mode of the flash light will be switched among the TTL/M/Multi/S1/S2 in circle for each press.			green lights blink alternatively.	prevent overheating due to frequent flashing.	Wait for about 3 minutes to cool the flash light.	
on]	Press the test and the flash will output the						

1. Install Batteries

battery chamber.

direction of the arrow.







Status and meaning of [Charging indicator]

2. Power-on and Power-off

Status of [Charging Indicator]	Meaning	Operation	
The red light is lit.	The flash light is fully charged, and can be used.	Normal	
The green light is lit.	The flash light has not been fully charged.	If the green light is lit for a long time, replace the batteries.	
The green light blinks.	The flash light is locked due to low battery.	Replace the batteries.	

Turn the switch knob clockwise to turn on the flash light power

supply; at the same time, the flash light is set as TTL mode, the

charging indicator is green and it will turn to red after the charge

is finished many seconds later, which indicates the flash is

Under the M, Multi, S1 and S2 modes, the

output power of the flash light can be

Under the Multi mode, this button can also

be used to adjust the time of the frequency

flash and the frequency. Please refer to the

Please press the [Mode Switch Button] first

for a while and then press [ON/OFF] button.

The switch of the focus light will turn on

Please press [Mode Switch Button] first for

a while and then press [+]. The head focus

of the flash light will switch among the

among the (auto /24 /28 /35 /50 /70 /85mm)

adjusted through this button

section of Multi mode.

or turn off for each press.

in circle for each press

adjustment scope of the output power is 1/128-1/64-1/32-1/16-1/8-1/4. If you want to adjust the flash time and flash frequency, please press [+] once firstly and the output power will shine. Press [Mode Switch Button] that is the MODE button under this status, the flash time will shine. The flash time can be adjusted at this time by pressing [+] and [-]. Then press [Mode Switch Button] again, the flash frequency starts to shine. The flash time can be adjusted at this time by pressing [+] and [-]. NOTE: The charging speed of the flash light is slow under the situation that the electricity quantity of the battery is insufficient, which

the flash frequency or change new battery under this situation.

6. S1/S2 Mode

M mode and adjust flash power. Press the [MODE] button, then the flash will enter S1/S2 mode. If the charging indicator keeps green for more than 20 seconds, These modes are applicable for slave flash in order to create many the flash will power off automatically. light effects. They are respectively applicable for manual flash After use, the power of the flash light can be closed by pressing environment and TLT flash environment.

7. Test Flash

selected.

this button for 2 seconds.

photo.

available. Continue turning the knob to make the flash light enter

In this mode, the metering system of this camera will detect flash illumination reflected back from the object so as to automatically control flash output. When taking photos, you only require aiming at some scene and press the shutter after focusing, the light will give proper light as per tips and then you can get your desired

In the TTL mode, you can also make compensation of flash brightness with the [Output control knob] within the range of ± 3 ev, with the precision of 1/3ev.

In this mode, you can set flash luminance as per your favorite via [+] and [-] buttons. When taking photos, you only require setting the flash luminance, adjust the camera and press the shutter, the flash light will flash under the camera synchronous signal.

5. Multi Mode

The Multi mode is the stroboflash mode. Under this mode, the flash light will output the power, flash frequency and time flash you have set. The power can be adjusted by [+] and [-]. The may cause the occurrence of the high-frequency flash. Please reduce

When the flash light is mounted on the camera system supporting

When the flash is in S1 mode, it will work with the first work of the master flash synchronously, with the result consistent with the use of radio slave. To use this mode correctly, the master flash should be set at manual flash and the TTL flash system with preflight function and the red-reduction function with multiple flashes should not be used.

S2 mode is similar to S1 mode, but it can support the master flash in TTL mode. In particular, if S1 mode cannot have correct and synchronous flash with the inbuilt flash, you can try to use S2

Whether in any mode, you can press PILOT button to test if the flash light flashes normally. In M/S1/S2 mode, press the PILOT button and the flash light will send light with different luminance as per levels of output power

8. Power-saving Function

In TTL/M/MULTI mode, if idle for about 30min, the flash will power off automatically.

In S1/S2 mode, if idle for 60min, the flash will power off automatically.

9. Overheating Protection

If the flash light is used too frequently, its overheating protection function will be triggered, the red and green lights of the charging indicator will blink alternatively, and the flash light will be locked. In such case, please wait for three minutes to cancel the protection before continuing the use.

Please try to use the 1/4 output or lower when rapid shooting is needed to prevent the effect on the shooting.

10. Auto Zoom

photos.

i-TTL, the flash light tube will move forward and backward with the changes of lens focus to suit different illumination zones. Note: Auto Zoom does not support full frame camera system, but you may pull out the wide-angle diffuser to avoid vignetting in

11. Set the focus position of the light head manually

The focus position of the light head can be set manually be pressing [Mode Switch Button] + [+]. Please press the [Mode Switch] button for a while and then press [+] button. The light head focus of the flash light will switch among the (auto/24

12. PC synchronous port(for input) By connecting to the PC synchronous port, you can make the flash

/ 28 / 35 / 50 / 70 / 85) in circle for each press.

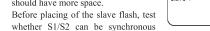
synchronously

V. Advanced Application 1. Multi-lamp Lighting Application

Use inbuilt flash or top-mounted flash as master flash.

Place speedlite in different directions. In outdoor application, radio signals can be reflected by walls; therefore, the placement of the slave flash should have more space.

power off automatically in order to save power



Do not place any obstacles between the host flash and the slave flash, because they may block the transmission of radio signals. In radio flash mode (S1 or S2), if the flash is idle for 30min, it will

2. Exposure Bracketing (FEB)

The FEB function is set on the camera. For the specific setting method, refer to your Camera Instructions. After the FEB is set, after 3 photos are taken, exposure compensation will be made automatically in the sequence of, for example, "normal → under → over". This function helps you improve the success rate of photo taking.

Set the AE-L/AF-L function as FV Lock on the camera before using this function. At this time, you can aim at your desired object in the viewfinder and then press the AE-L key or AF-L key, in such case, the flash light will pre-flash to get the reading of flash exposure for the object; after you have confirmed the scene frame, press the shutter. (This function can only be available when your camera supports it; for the setting of AE-L and AF-L, refer to your camera manual)

4. Rear-curtain Sync

You can use slow-speed shutter to produce trailing smear for the object and the flash light will flash at the moment when the shutter is going to be shut, which means the rear-curtain sync function .(For the rear-curtain sync setting, refer to your camera manual for setting)

5. Application of AF LED

If the object or environment lacks sufficient light, the camera can not conduct accurate focusing; at this time, the flash light can give out AF light to assist in the camera's focusing so as to achieve

You can use the exposure compensation function of this camera to compensate flash output so as to make shooting effect better meet

7. Reflection Flash

aimed at wall or ceiling and using the light reflected back from the ceiling or wall to light the desired object, so that the shade behind the object can be decreased to get more natural shooting effect.

get enough exposure. The wall or ceiling should be even and white in order to get efficient reflection; if the reflection surface is not white, color cast may appear in photo.

8. Use Reflection Board to Take Photos

diffusion board back. In such case,

if this product is being used to take

highlighted point on the eyes of

Pull out the wide-angle diffusion board,

Note: When this product is used in incompatible iTTL camera,

push back the reflection board and

arrange them as per the figure; in such

case, the flash scopes will extent to 18

mm and the flash effect will be softer and

Functions 2, 3, 4, 5, and 6 are not available.

photos, it will produce a

the subject and thus make the eyes

charming (catch light). This

function can reach optimal effect

when the flasher head is up 90°.

9. Use Wide-angle Diffuser

more natural.

If the wall or ceiling is too far, the

With the reflection board flash, draw the reflection board and the wide-angle diffusion board out from the light head at the same time and then push the wide-angle

accurate focusing.

6. Exposure Compensation

your requirements.

In the TTL mode, you can also make compensation of flash brightness with the [Output control knob] within the range of ±3ev, with the precision of 1/3ev.

Bounce flash means to take photos by making flash light head

bounce flash may be too weak to

TTL auto flash or manual Level 8 light Flash control quantity output control with 0.3 stop

VI. Specifications

Vertical rotation angle

Horizontal rotation angle 0~270 degrees

Guide number

Circuit design

Flash mode

Zoom range

Power Supply

Lighting times

Recycle time

Color temperature

Flash time

Net weight

Accessories

the flash range.

increment Additional features FEB, FEC, FEL, Automatic zooming,

TTL, M, Multi, S1, S2

-7~90 degrees

are usable)

1/800s~1/20000s

5600k

Rear-curtain Sync. Dimensions $60 \times 72 \times 172$ mm(extended state)

> 300g Flash light (1), protecting bag (1), and mini stand(1) and manual (1)

Insulated Gate Bipolar Transistor (IGBT)

4×AAsize batteries (Alkaline or Ni-MH

100~1500 times (AA alkaline cell used)

less than 3s (AA alkaline cell used)

VII. Possible problems during use and solutions

1. The AF LED is not on? Check if this camera needs flash light assist AF or if it supports the function; some cameras requires focucal points to be in the center, focus method to adopt AF-S and requires dark environment; check if some settings in the camera are forbidden.

2. Photos are under exposure or over exposure? Check if the set shutter, aperture and ISO are too near the flash limit or if some settings including exposure compensation in relation to flash are

3. Vignetting appears in photos or only part of the subject is **illuminated?** This product has a designed light head zoom range of 24-85 mm, and is currently not compatible with full frame camera system. You may pull out the wide-angle diffuser to widen

different personal preferences, the use of this product may cause

Auto, 24, 28, 35, 50, 70, 85 mm

clear visual effect.

6. The flash light is abnormal? Switch off the power of flash light and camera, mount the flash light on the hot shoe of camera, and switch on the power of flash light and camera again. If the

abnormity continues, replace the batteries.

compensation settings.

7. Precaution for outdoor use of lambency umbrella: The lambency umbrella mounted on the flash light outdoors may be blown down easily, and the hot shoe of the flash light may be broken. Please fix the mounting rack or avoid outdoor use.

the whole overexposure or underexposure; please try to make

adjustments by the camera flash compensation or exposure

5. You may feel the flash control panel is dim, because there is

one protective film on the panel; you can tear it away to enjoy a

8. The S1 and S2 lead flash without the camera failed? The following situation shall be avoided when the S1 and S2 modes are used: the wireless touch sensor is directly shined under the sun; the red eye reduction function of the main light is used; the order mode (Nikon) or wireless mode (Canon) of the main light is used; the ST-E2 is used as the flash controller.

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TEL: 400-001-3888 4. Because of differences among various models of cameras and









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